

IN THE CLAIMS:

Please cancel Claim 22 without prejudice or disclaimer of subject matter amend the claim as shown below. The claims, as pending in the subject application, now read as follows:

1. (Currently amended) A computer-executable print control program stored on a computer-readable medium and executed by an information processing apparatus that transmits print data to an image-forming device which [[and]] records an image, the program comprising:

code for causing said information processing apparatus to execute a spooling step of further re-spooling, as a second spool file, print data spooled by an operating system as a first spool file; and

code for causing said information processing apparatus to execute a transmission step of reading out and transmitting to the image-forming device a portion of the print data re-spooled as the second spool file in the case that ~~during~~ re-spooling in said spooling step is stalled.

2. (Currently amended) The computer-executable print control program according to claim 1, wherein the program further comprises:

code for causing said information processing apparatus to execute an attaching step of attaching to the print data re-spooled in said spooling step a first job identifier and a second job identifier different from the first job identifier; and

code for causing said information processing apparatus to execute a managing step of managing jobs based on the second job identifier.

3. (Currently amended) The computer-executable print control program according to claim 2, wherein the first job identifier is an identifier issued via the operating system.

4. (Currently amended) The computer-executable print control program according to claim 1, wherein said transmission step comprises a segmented transmission step in which print data in the second spool file is divided and transmitted to said image-forming device in segments.

5. (Currently amended) The computer-executable print control program according to claim 4, wherein:

said transmission step comprises a write finish detection step of detecting an end of spooling of the second spool file in said spooling step; and

in said segmented transmission step the print data in the second spool file is transmitted to said image-forming device in segments if the second spool file write finish is not detected in said write finish detection step.

6. (Currently amended) The computer-executable print control program according to claim 4, wherein said segmented transmission step comprises:

a data amount detection step of detecting an amount of data not yet transmitted to said image-forming device in the second spool file;

a data determination step of determining whether or not the amount of data detected in said data amount detection step is below a predetermined threshold; and

a data transmission step of transmitting to said image-forming device the print data in the second spool file in segments if it is determined in said data determination step that the amount of data is below the threshold.

7. (Currently amended) The computer-executable print control program according to claim 6, wherein said segmented transmission step repeatedly executes said data transmission step at intervals shorter than that in which an interface time out is generated at said image-forming device, until the amount of data is determined in said determination step to be above the threshold.

8. (Currently amended) The computer-executable print control program according to claim 1, further comprising a retransmission step of retransmitting to said image-forming device said print data re-spooled as the second spool file in said spooling step before the re-spooling in said spooling step is finished if transmission to said image-forming device of the print data is stalled.

9. (Currently amended) The computer-executable print control program according to claim 8, wherein said retransmission step comprises:

a display step of displaying a status of said print data re-spooled as the second spool file in said spooling step; and

if print data for which transmission to said image-forming device is interrupted due to error is displayed in said display step, an accepting step of accepting an instruction to retransmit such print data.

10. (Currently amended) The computer-executable print control program according to claim 9, wherein said retransmission step further comprises an identification step of identifying print data for retransmission using the second job identifier.

11. (Currently amended) A computer-readable recording medium containing a computer-executable print control program executed by an information processing apparatus that transmits print data to an image-forming device which [[and]] records an image, the program comprising:

code for causing said information processing apparatus to execute a spooling step of further re-spooling, as a second spool file, print data spooled by an operating system as a first spool file and then once de-spooled; and

code for causing said information processing apparatus to execute a transmission step of reading out and transmitting to the image-forming device a portion of the print data re-spooled as the second spool file in the case that ~~during~~ re-spooling in said spooling step is stalled.

12. (Currently amended) An information processing apparatus for transmitting print data to an image-forming device which records ~~and recording~~ an image, the apparatus comprising:

a spooling unit for further re-spooling, as a second spool file, print data spooled by an operating system as a first spool file and then once de-spooled; and

a transmission unit for reading out and transmitting to said image-forming device a portion of said print data re-spooled as the second spool file in the case that ~~during~~ re-spooling by said spooling unit is stalled.

13. (Original) The information processing apparatus according to claim 12, further comprising:

an attaching unit for attaching to the print data re-spooled by said spooling unit a first job identifier and a second job identifier different from the first job identifier; and  
a managing unit for managing jobs based on the second job identifier.

14. (Original) The information processing apparatus according to claim 13, wherein the first job identifier is an identifier issued via the operating system.

15. (Original) The information processing apparatus according to claim 12, wherein said transmission unit comprises a segmented transmission unit for dividing and transmitting print data in the second spool file to said image-forming device in segments.

16. (Original) The information processing apparatus according to claim 15, wherein:

said transmission unit comprises a write finish detection unit for detecting an end of spooling of a spool file by said spooling unit; and

said segmented transmission unit transmits the print data in the second spool file to said image-forming device in segments if a spool file write finish is not detected by said write finish detection unit.

17. (Original) The information processing apparatus according to claim 15, wherein said segmented transmission unit comprises:

a data amount detection unit for detecting an amount of data not yet transmitted to said image-forming device in the second spool file;

a data determination unit for determining whether or not the amount of data detected by said data amount detection unit is below a predetermined threshold; and

a data transmitter for transmitting to said image-forming device the print data in the second spool file in segments if it is determined by said data determination unit that the amount of data is below the threshold.

18. (Original) The information processing apparatus according to claim 17, wherein said segmented transmission unit repeatedly executes data transmission by the data transmitter at intervals shorter than that in which an interface time out is generated at said image-forming device, until the amount of data is determined by said determination unit to be above the threshold.

19. (Original) The information processing apparatus according to claim 12, further comprising a retransmission unit for retransmitting to said image-forming device said

print data re-spooled as the second spool file by said spooling unit before the re-spooling by said spooling unit is finished if transmission to said image-forming device of the print data is stalled.

20. (Original) The information processing apparatus according to claim 19, wherein said retransmission unit comprises:

a display unit for displaying a status of said print data re-spooled as the second spool file by said spooling unit; and

if print data for which transmission to said image-forming device is interrupted due to error is displayed by said display unit, an accepting unit for accepting an instruction to retransmit such print data.

21. (Original) The information processing apparatus according to claim 20, wherein said retransmission unit further comprises an identifier for identifying print data for retransmission using the second job identifier.

22. (Original) A print control program executed by an information processing apparatus that transmits print data to an image-forming device and records an image comprises:

code for causing the information processing apparatus to execute a spooling step of further re-spooling print data spooled by an operating system; and

code for causing the information processing apparatus to execute a transmission step of reading out and transmitting to the image-forming device a portion of the print data re-spooled, when an amount of data, which is re-spooled and not yet transmitted to said

image-forming device, is below a predetermined threshold, during re-spooling in said spooling step.